

**INVASIVE SPECIES CONTROL PROJECTS (R1 SMALL GRANTS)
CY 2014 PROGRESS REPORT**

Project Title: Shiny Geranium Comprehensive Survey and Control

Station: Ridgefield NWRC

Contact Person: Lynn Cornelius

Project Description: This project will concentrate comprehensive search and control efforts on shiny geranium (*Geranium lucidum*). Approximately 3 acres of oak woodland edge habitat (found in 2012) and 2 acres of young cottonwood forest edge habitat (found in 2013) are known to be infected on the Refuge. All potential habitats will be searched refuge-wide - estimated at approximately 20-40 acres. The plant will be searched and treated on 3 acres of oak woodland and 2 acres of sandy soil deciduous riparian and other locations as discovered using EDRR.

Invasive Species Targeted: shiny geranium (*Geranium lucidum*)

Project Completion Date or Estimated Completion Date: June 30, 2015

Project Results: Planning, scheduling, review, and reconnaissance work was initiated on the project beginning in September, 2014. Weed flamer use and cost was researched. One accessible known site was monitored in late October and November and photos taken to document the emergence of fall seedlings and record best treatment windows through the season between first rain, early emergence, leaf fall/cover, and full emergence to flowering. The best boat access trail was researched and developed and a canoe was stored on the Carty Unit in preparation for boat searches of oak woodland outcropping islands in December-June.

Most project work will take place Jan-May of CY 2015. Treatment is planned for December-March as weather permits and as leaf litter decays and plants emerge more fully. The best search window when plants are at their full red color will be determined from field reconnaissance February to June. Two potential forested dredge sand spoil sites were searched in November and 1 site yielded a population on dredge sand spoils under young deciduous willow and cottonwood. This population will be treated in December as weather permits. Planning and scheduling is underway for winter and spring search treatment.

Number of Acres Treated: 0 (Planned for Dec-March)

Number of Acres Inventoried and/or Mapped: 7

Number of Acres Restored: 0

Total Grant Amount: \$10,000

Breakdown of Expenditures:

Category	Total \$ Spent	% of Total Grant
Equipment/Supplies	0	0
Chemical	0	0
Biocontrol Agents	0	0
Travel	0	0
Biotech/Contractor Salary	1,500	15%
Restoration Materials	0	0
Other (Describe)		
TOTAL	1,500	15%